



FIGURE 2

a.

MVGELRYREFRVPLGPGLHAYPDELIRORVGHNGHPEYOIRWLILRRGDD 50 GDRDSTVDCKAEHILLWMSDDEIYANCHKMLGENGQVIAPSRESTEAGAL 100 DKSVLGEMETDVKSLIQRALRQLEECVGTVPPAPLLHTVHVLSAYASIEP 150 LTGIFKDRRVVNLLMHMLSSPDYQIRWSAGRMIQALSSHDAGTRTQILLS 200 LSQQEAIEKHLDFDSRCALLALFAQATLTEHPMSFEGVQLPQVPGRLLFS 250 LVKRYLHVTFLLDRLNGDAGDQGAQNNFSPEELNVGRGRLELEFSMAMGT 300 LISELVQAMRWDGASSRPESSSSSTFQPRPAQFRPYTQRFRRSRRFRPRA 350 SFASFNTYALYVRDTLRPGMRVRMLENYEEIAAGDEGQFRQSNDGVPPAQ 400 **VLWDSTGHTYWVHWHMLEILGFEEDIEDVIDIEELQELGANGALSIVPPS** 450 QRWKPITQLFAEPYVVPEEEDREESENLTQAEWWELLFFIRQLSEAERLH 500 IVDLLQDHLEEERVLDYDMLPELTVPVDLAQDLLLSLPQQLEDSALRDLF 550 SCSVYRKYGPEVLVGHLSYPFVPGAQPNLFGANBESEAKDPPLQSASPAL 600 QRLVESLGPEGEVLVELEQALGSEAPQETEVKSCLLQLQEQPQPFLALMR 650 SLDTSASNKTLHLTVLR ILMQLVNFPEALLLPWHBAMDACVTCLRSPNTD 700 REVLQELIFFLHRLTTTSRDYAVILNQHGARDAISKVLEKHRGKLELAQE 750 LRDMVSKCEKHAHLYRKLTTNILGGCIQMVLGQIEDHRRTHRPIQIPFFD 800 VFLRYLCOGSSEEMKKNRYWEKVEVSSNPORASRLTDRNPKTYWESSGRA 850 GSHFITLHMRPGVIIRQLTLLVAGEDSSYMPAWVVVCGGNSIKSVNKELN 900 TVNVMPSASRVTLLENLTRFWP1IQIRIKRCQQGGINTRIRGLEVLGPKP 950 TFWPVFREQLCRHTRLFYMVRAQAWSQDIAEDRRSLLHLSSRLNGALRHE 1000 QNFAERFLPDMEAAQALSKTCWEALVSPLVQNITSPDEDSTSSLGWLLDQ 1050 YLGCREAAYNPQSRAAAFSSRVRRLTHLLVHVEPREAAPPVVAIPRSKGR 1100 NRIHDWSYLITRGLPSSIMKNLTRCWRSVVEEQMNKFLSASWKDDDFVPR 1150 YCERYYVLQKSSSELFGPRAAFLLAMRNGCADAVRRLPFLRAAHVKOOFA 1200 RHIDQRIQGSRMGGARGMEMLAQLQRCLESVLIFSPLEIATTFEHYYQHY 1250 MADRLLSVGSSWLEGAVLEOIGPCFPSRLPOOMLQSLNVSEELQRQFHVY 1300 QLQQLDQELLKLEDTEKKIQVAHEDSGREDKSKKEEAIGEAAAVAMAEEE 1350 DOGKKEEGEEGEGEDEEEERYYKGTMPEVCVLVVTPRFWPVASVCQMLN 1400 PATCLPAYLRGTINHYTNFYSKSQSRSSLEKEPQRRLQWTWQGRAEVQFG 1450 GOILHVSTVOMWLLLHLNNQKEVSVESLQAISELPPDVLHRAIGPLTSSR 1500 1550 GPLDLQEOKNVPGGVLKIRDDSEEPRPRRGNVWLIPPQTYLQAEAEEGRN MEKRRNLLNCLVVRILKAHGDEGLHVDRLVYLVLEAWEKGPCPARGLVSS 1600 LGRGATCRSSDVLSCILHLLVKGTLRRHDDRPQVLYYAVPVTVMEPHMES 1650 1689 LNPGSAGPNPPLTFHTLQIRSRGVPYASCTDNHTFSTFR

b.

p193:	LKAHGDE
Hrk:	LKALGDE
Bim:	L RRI G DE
Bik:	LACIGDE
Bid:	LAQIGDE
Blk:	LACIGDE
EGL-1:	LAAMCDD
BAD:	LRRMSDE
BNIP-3:	LKKNSDW



Figure 3

Pro.
T-Ag [P myc]P
Cont IP

myc

b.
IVT.p193
T-Ag
Tot. Pro
T-Ag
Cont.
p193
[Autorad)

T-Ag
(Wastern)

about 19

abou



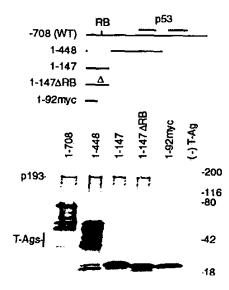
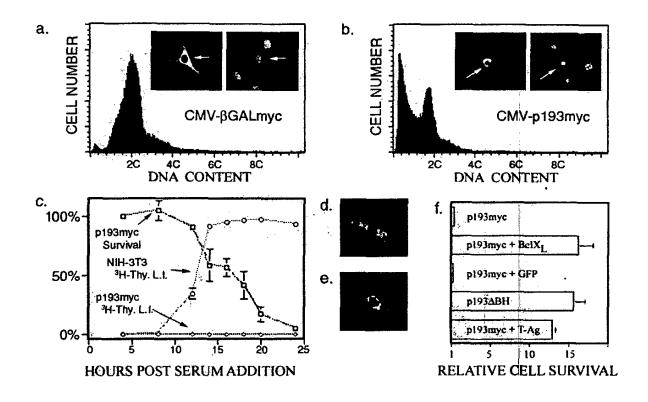




Figure 5.





Serial No. 10/080,943
Inventor: Field, Loren J. et al.
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P193 Proteins and Nucleic Acids, and Uses Thereof
P193 Proteins and Nucleic Acids, 2099
Attorney Docket No. 7037-458/IU-099

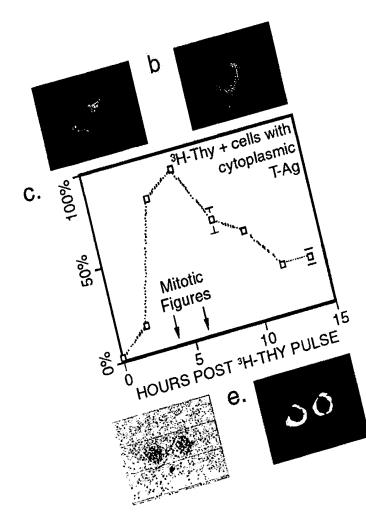
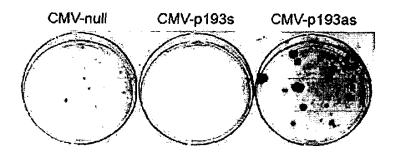




Figure 7

A. NIH-3T3 colony growth assay:

- -Transfect with various constructs
- -Impose G418 selection
- Stain with gentian violet



B. RT-PCR analysis:

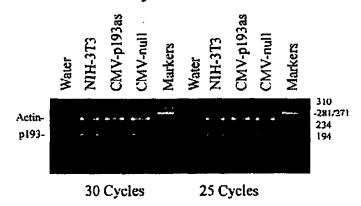




Figure 8.

Structure of CMV expression vectors with nested p193 C-terminal truncations.

A) CMV-null	BH3
B) CMV-p193	
C) CMV-1342stp	
D) CMV-1152stp	
E) CMV-912stp	
F) CMV-309stp	
G)CMV-243stp	
H) CMV-deltaBH	

Colony growth assay.

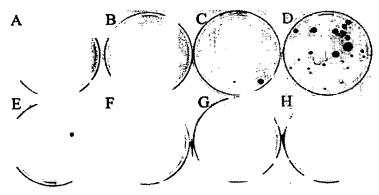




Figure 8C

p 93dn Blocks MMS induced Apoptosis in NIH 3T3 Cells

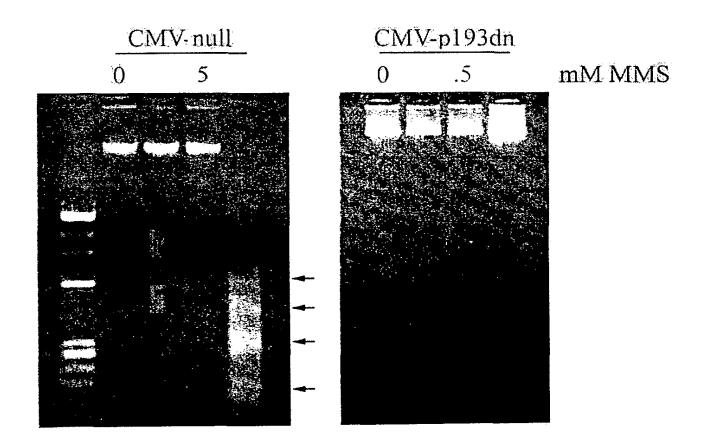




Figure 9.

MHC-p193dn Transgene

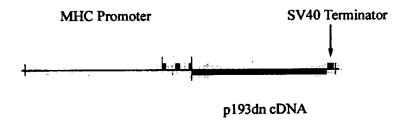




Figure 10.

Northern Blot of transgene expression in MHC-p193dn transgneic mice

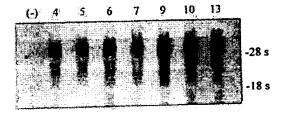




Figure 11. B.

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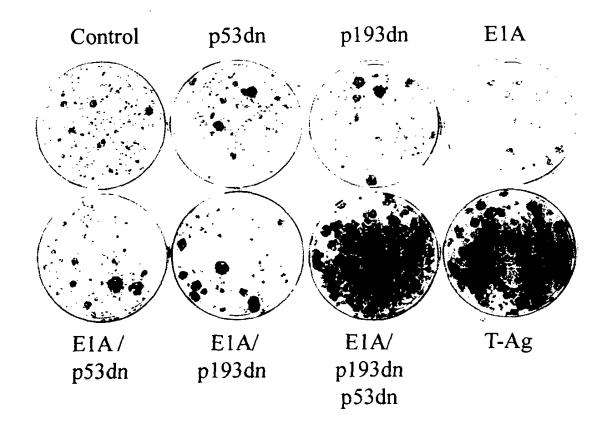
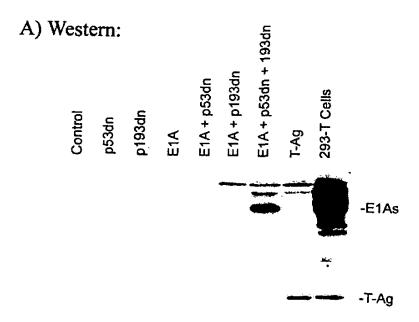




Figure 13



B) DNA Fragmentation:

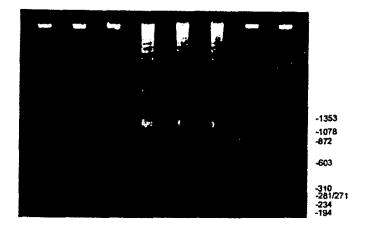
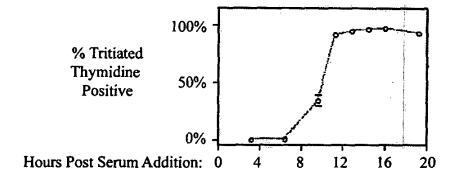




Figure 14

p193 is Expressed in G₁/S of the Cell Cycle:

A) Cell Cycle Syncronization:



B) Western Analysis of p193 Expression:

Hours Post Serum Addition:



Figure 15

Isoproternol induces growth in cardiomyocytes which co-express p193dn and p53dn.

